

FIG. 3

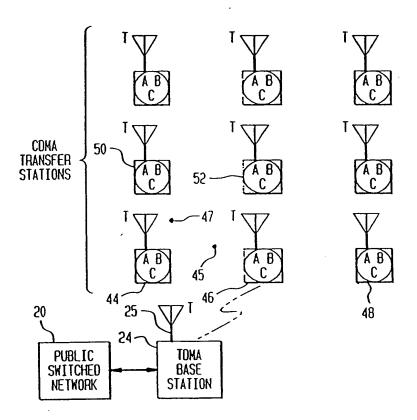


FIG. 4

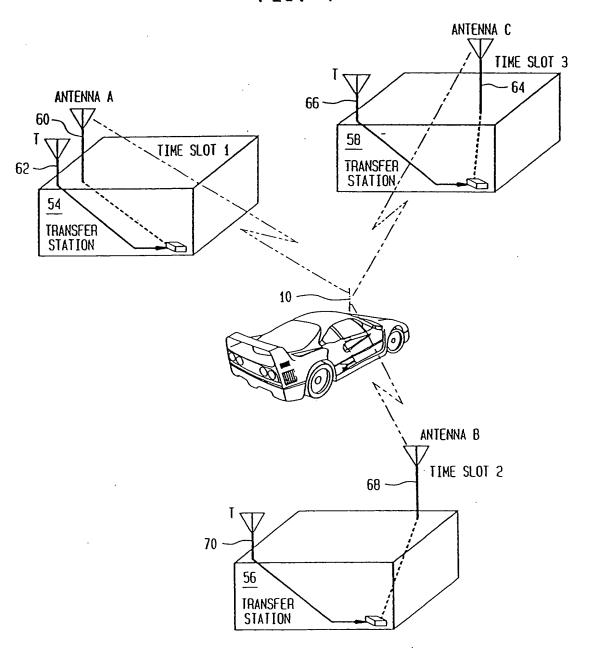


FIG. 5

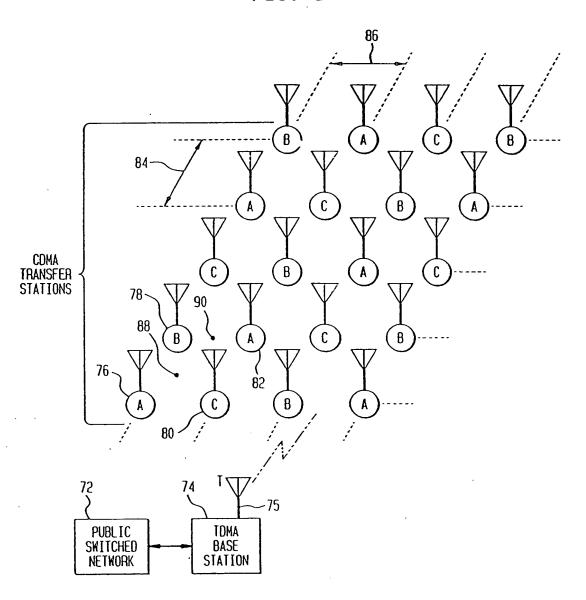


FIG. 6

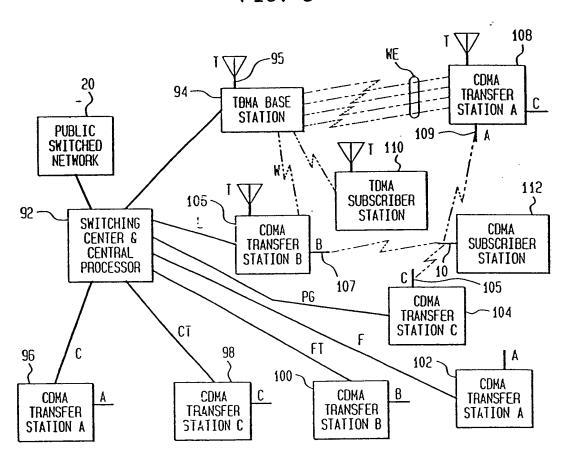
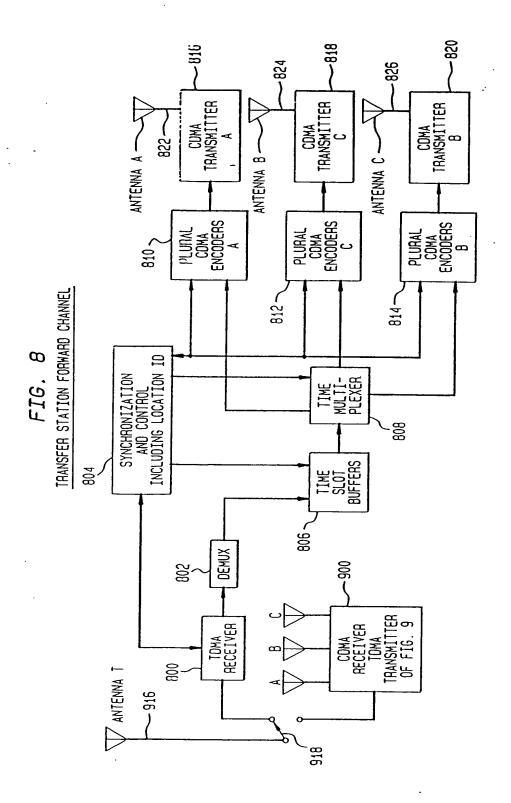


FIG. 7

TIME SLOT	S 1	5	3	4	5	6
	RECEIVE	RECEIVE	TRANSMIT	RECEIVE	SCAN	SPARE



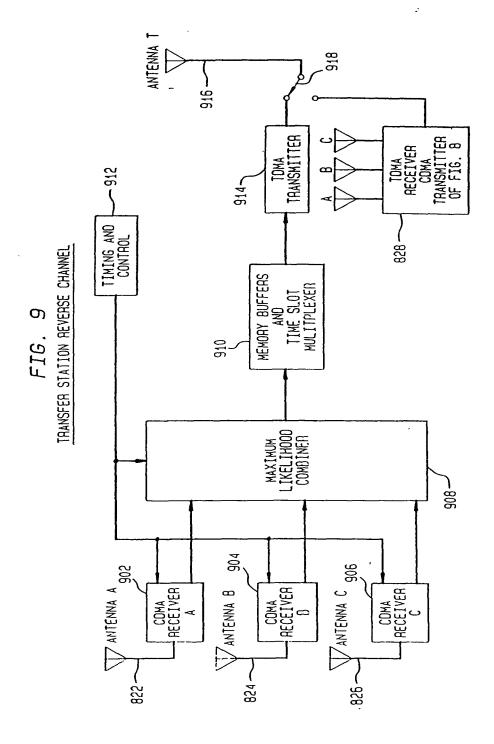


FIG. 10A

	TRANSFER	OTATO	A LUMY	UITEUL	TO VALE	NNAS IF	บอพชอบ-	CHANNEI )		
TIME SLOTS	1	2,	3	4	5	6	1	2		
ANTENNA A		Τ <sub>2</sub>	T <sub>3</sub>	14	T <sub>5</sub>	16	T <sub>1</sub>	T <sub>2</sub>		
- ANTENNA B	<u> </u>	Ι <sub>f</sub>	T <sub>2</sub>	T <sub>3</sub>	14	T <sub>5</sub>	T <sub>6</sub>	T <sub>1</sub>	1002	
ANTENNA C	-	T <sub>5</sub>		Ti	12	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>		
MICHIA	' [ 4	<u> </u>				<u>J</u>	4			
TRANSFER STATION COMA INPUT FROM ANTENNAS (REVERSE CHANNEL)										
TIME SLOTS						· ·			)	
	1	2	3_	4	5	6	1	5		
ANTENNA A	R <sub>5</sub>	R <sub>6</sub>	- R <sub>1</sub>	R2	fi3	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>		
ANTENNA B	R <sub>5</sub>	R <sub>6</sub>	R <sub>1</sub>	R2	£3	R <sub>4</sub>	A <sub>5</sub>	R <sub>6</sub>	1004	
ANTENNA C	R <sub>5</sub>	A <sub>6</sub>	R <sub>1</sub>	R <sub>2</sub>	ĥз	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>		
Ţ	, = TRANS	MITTER	CHANNEL	χ	R <sub>v</sub>	· = REC	EIVER C	HANNEL X		
$T_X$ = TRANSMITTER CHANNEL X $R_X$ = RECEIVER CHANNEL X $FIG.~10B$										
			F1	6. 1 	08					
TRANSFER STATION COMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)										
TIME SLOTS	1	5	3	4	5	6	1	2		
ANTENNA A	11,7	12,8	T <sub>3, 9</sub>	T <sub>4. 10</sub>	<sup>T</sup> 5, 11	<sup>T</sup> 6, 12	T <sub>1.7</sub>	T <sub>2,8</sub>		
ANTENNA E	I <sub>6, 12</sub>	T <sub>1, 7</sub>	T <sub>2,8</sub>	13,9	14, 10	<sup>7</sup> 5, 11	T <sub>6, 12</sub>	T <sub>1.7</sub>	1006	
ANTENNA (	14, 10	T <sub>5, 11</sub>	T <sub>6, 12</sub>	T <sub>1.7</sub>	12,8	T <sub>3, 9</sub>	T <sub>4, 10</sub>	T <sub>5, 11</sub>		
		<b>.</b>		•			<b>.</b>		` <u> </u>	
TRANSFER STATION COMA INPUT FROM ANTENNAS (REVERSE CHANNEL)										
TIME SLOTS	1	2	3	4	<u>.</u> 5	6	1	2		
ANTENNA 1	4 R <sub>5. 11</sub>	R <sub>6. 12</sub>	R <sub>1.7</sub>	H2' 8	R3. 9	R <sub>4, 10</sub>	R <sub>5, 11</sub>	R <sub>6, 12</sub>		
ANTENNA 1	3 Rs. 11	A <sub>6</sub> , 12	R <sub>1.7</sub>	R <sub>2.8</sub>	Rg. 3	R <sub>4. 10</sub>	R <sub>5, 11</sub>	R <sub>6. 12</sub>	1008	
ANTENNA (	R <sub>5, 11</sub>	R <sub>6. 12</sub>	A <sub>1.7</sub>	R <sub>2.8</sub>	R <sub>3. 9</sub>	R <sub>4. 10</sub>	R <sub>5, 11</sub>	R <sub>6, 12</sub>		
$I_X$ = TRANSMITTER CHANNEL X $I_{X, y}$ = TRANSMITTER CHANNELS X AND Y $I_{X, y}$ = RECEIVER CHANNELS X AND Y										

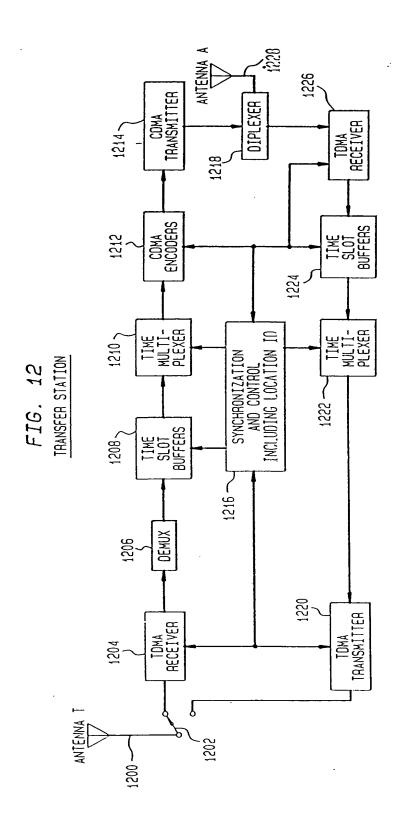
FIG. 11A

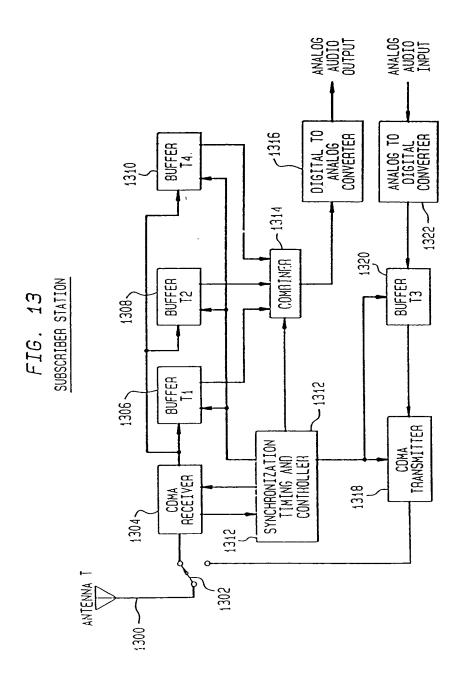
				_/ \_					
TRANSFER STATION COMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)									
TIME SLOTS	1	2	3	4	5	6	1	2	
	T <sub>1</sub>	15	13	14	<sup>1</sup> 5	T <sub>6</sub>	Τ <sub>i</sub>	Τ <sub>2</sub>	
ANTTAINA A	17	Tg	Tg	T <sub>10</sub>	T <sub>11</sub>	τ <sub>12</sub>	17	18	<u>1102</u>
ANTENNA A	T <sub>13</sub>	T <sub>14</sub>	T <sub>15</sub>	T <sub>16</sub>	T <sub>17</sub>	T <sub>18</sub>	T <sub>13</sub>	T <sub>14</sub>	
	119	T <sub>20</sub>	121	122	T <sub>23</sub>	T <sub>24</sub>	T <sub>19</sub>	T <sub>20</sub>	
TIME SLOTS	1	2	3	4	5	6	i	2	
	16	Ti	12	13	₹4	15	16	T <sub>1</sub>	
4475484 0	112	17	Т <sub>8</sub>	Ιg	Ĩ <u>:</u> 0	T <sub>11</sub>	T <sub>12</sub>	Т7	<u>1104</u>
ANTENNA B	T <sub>18</sub>	T <sub>13</sub>	T <sub>14</sub>	T <sub>15</sub>	<sup>T</sup> :6	T <sub>17</sub>	T <sub>18</sub>	T <sub>13</sub>	
	124	T <sub>19</sub>	120	121	155	T <sub>23</sub>	T <sub>24</sub>	T <sub>19</sub>	
TIME SLOTS	1	2	3	4	5	6	i	2	
	14	15	Т <sub>6</sub>	11	<u>:</u> 5	Т3	14	15	
ANTENNA C	T <sub>10</sub>	111	112	Τ <sub>7</sub>	- <u>;</u> 8	Tg	T <sub>10</sub>	T <sub>11</sub>	1106
	T <sub>16</sub>	T <sub>17</sub>	T <sub>18</sub>	T <sub>13</sub>	T44	T <sub>15</sub>	T <sub>16</sub>	117	
	122	123	T <sub>24</sub>	119	<u>1</u> 50	T <sub>21</sub>	122	123	

FIG. 11B

TRANSFER STATION COMA INPUT FROM ANTENNAS (REVERSE CHANNEL)

	1	2	3	4		<u>b</u>	· 1	2	
ANTENNA A. ANTENNA B AND ANTENNA C HAVE IDENTICAL TIME SLOTTING	R <sub>5</sub>	A <sub>6</sub>	R <sub>1</sub>	Я <sub>2</sub>	<del>તે</del> લુ	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>	
	Rii	R <sub>12</sub>	R <sub>7</sub>	R <sub>B</sub>	- g	R <sub>10</sub>	R <sub>11</sub>	R <sub>12</sub>	1108
	R <sub>17</sub>	A <sub>18</sub>	R <sub>13</sub>	R <sub>14</sub>	€:5	<sup>R</sup> 16	R <sub>17</sub>	R <sub>18</sub>	
	R <sub>23</sub>	R <sub>24</sub>	R <sub>19</sub>	<sub>U</sub> 50	ĥ21	H25	H <sub>23</sub>	R <sub>24</sub>	





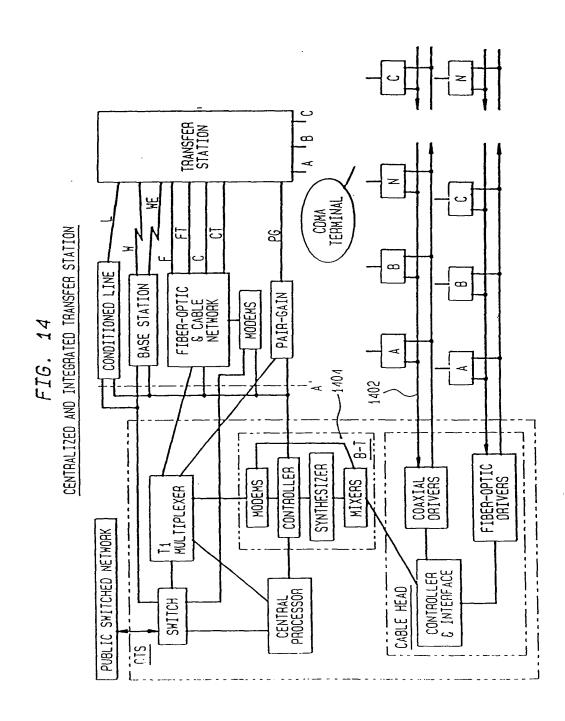
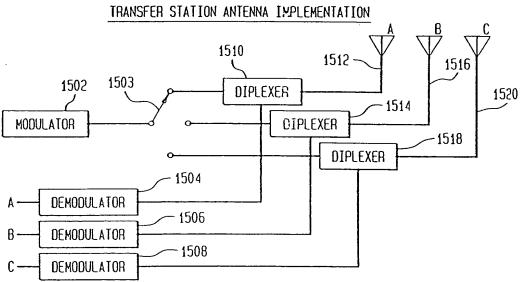


FIG. 15



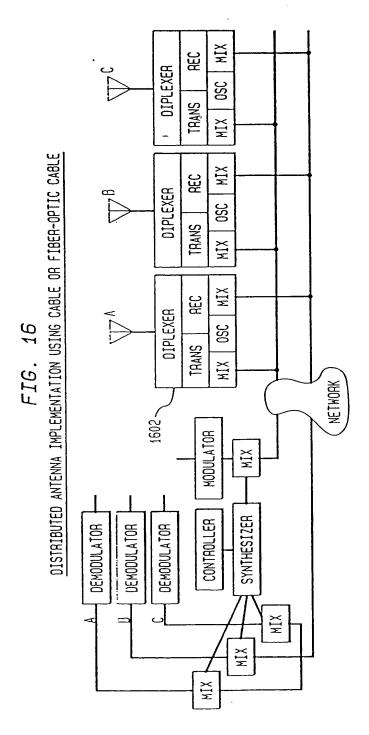


FIG. 17
SYNCH AND CONTROL CHANNEL STRUCTURE

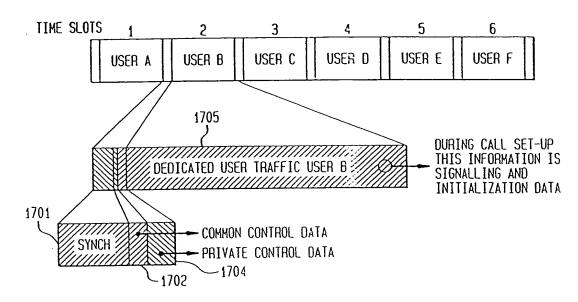


FIG.~18TIME CALIBRATION FOR DISTRIBUTED ANTENNA IMPLEMENTATION

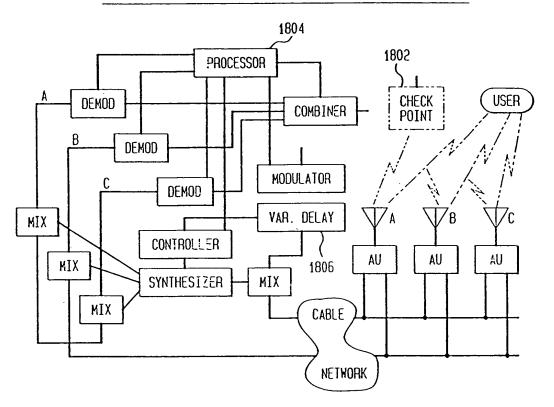


FIG. 19
LOCATION CENTER EXTERNAL TO COMMUNICATION SYSTEM

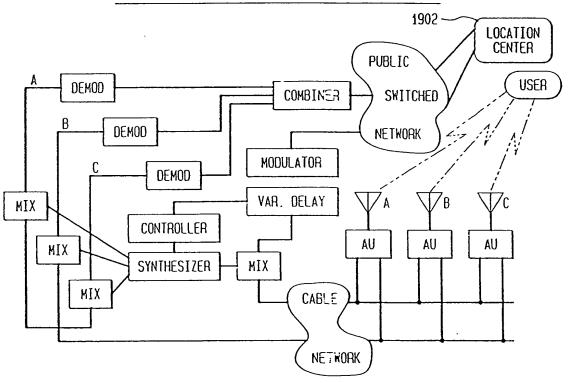


FIG. 20

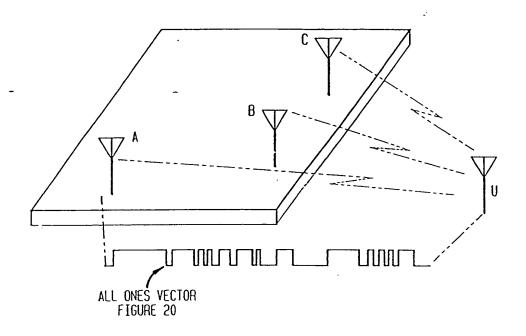


FIG. 21

